

Leading the Launch



*Delivering a payload of
responsive technologies*



Technology Deployment



HOME OF SCIENCE AND ENGINEERING SOLUTIONS

IDAHO NATIONAL ENGINEERING AND ENVIRONMENTAL LABORATORY



Improved PM-10 Air Monitor

Problem

INEEL's Site Wide Monitoring project needed to improve the reliability of particulate monitors.

Baseline Technology

Conventional particulate monitors with constant speed carbon vane pumps.

Innovative Technology

The INEEL-improved PM-10 particulate monitor integrates a variable speed blower and electronic speed controller to maintain constant air flow.

Comparison

The improved system self regulates the monitor's flow rate, and has proven to be more reliable. In contrast, the conventional monitor requires regular field adjustments to maintain constant flow rate and is subject to frequent pump failure.

Benefits

This system enables the project to routinely obtain reliable air quality data for the INEEL.

Project: ID-ER-108
Site Wide Monitoring

Non-OST